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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Group Art Unit 1634

In re Patent Application of

James W. Schumm, et al.

Application No. 10/769,579

Confirmation No.: 2176

Filed: January 30, 2004

Examiner: Goldberg, Jeanine Anne

"MULTIPLEX AMPLIFICATION OF
SHORT TANDEM REPEAT LOCI"

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
PURSUANT TO 37 C.F.R. § 1.97(c)

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Sir:

The Examiner's attention is directed to the references which are listed on the attached Form PTO/SB/08A and PTO/SB/08B, copies of non-U.S. patent references are attached. This Statement is also being accompanied by a check in payment of the \$180.00 fee required under 37 CFR §1.17(p). Please charge or credit Deposit Account No. 50-0842 with any shortage or overpayment of the required fee.

Citation of these references is respectfully requested.

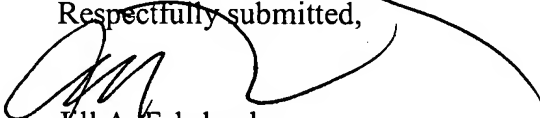
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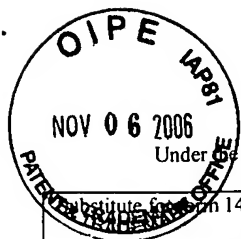
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Respectfully submitted,


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Substitute Form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 1

Complete if Known

Application Number	10/769,579
Filing Date	January 30, 2004
First named Inventor	James W. Schumm
Group Art Unit	1634
Examiner name	Goldberg, Jeanine Anne
Attorney Docket Number	016026-9238-US02

U.S. Patent Documents

Examiner Initials	U.S. Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document
	5,599,666	Schumm et al.	2/4/1997
	2003/180724	Schumm et al.	9/25/2003

FOREIGN PATENT DOCUMENTS

Examiner Initials	Country Code	Foreign Patent Document Number	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Translation	English Abstract
	WO	92/13101	Ingeny B.V.	8/6/1992		
	WO	92/13969	Baylor College of Medicine	8/20/1992		
	WO	92/21693	United States of America	12/10/1992		
	WO	94/03640	Government of the United States	2/17/1994		
	WO	97/39138	Promega Corporation	10/23/1997		

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				First Named Inventor	James W. Schumm
				Group Art Unit	1634
				Examiner Name	Goldberg, Jeanine Anne
Sheet	1	of	4	Attorney Docket Number	016026-9238-US02

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
		ADAMSON, D. et al., "A Collection of Ordered Tetranucleotide-Repeat Markers from the Human Genome," <i>Am. J. Hunt. Genet.</i> 57:619-628
		ANDERSEN, J.F. et al., "Further validation of a multiplex STR system for use in routine forensic identity testing," <i>Forensic Science International</i> (1996) 78:47-64
		BEVER, R.A. et al., "Characterization of Five VNTR Loci by Hae III RFLP Analysis: Application to Paternity Testing," in <i>The Second International Symposium on Human Identification 1991</i> (1992) 103-128
		BUDOWLE, B. et al., "Validation and Population Studies of the Loci LDLR, GYPA, HBGG, D7S8, and Gc (PM loci), and HLA-DQ a Using a Multiplex Amplification and Typing Procedure," <i>J. Forensic Sci.</i> (1995) 40(1):45-54
		CHAMBERLAIN et al., "Multiplex PCR for the diagnosis of Duchenne muscular dystrophy," <i>PCR Protocols A Guide to Methods and Applications</i> (1990) 272-281
		DE STEFANO, "Analysis of short tandem repeat locus on chromosome 19 (D19S253)," <i>Int. J. Legal Med.</i> (1996) 108:256-258
		FUREDI, S. et al., "Hungarian Population Data on Six STR Loci-HUMVWFA31, HUMTH01, HUMCSF1PO, HUMFES/FPS, HUMTPOX, and HUMHPRTB-derived using multiplex PCR amplification and manual typing," <i>Int. J. Legal Med.</i> (1996) 109:100-101
		GERKEN et al., Genbank Accession No. L16393 (May, 1993)
		GILL, "Automated short tandem repeat (STR) analysis in forensic casework – a strategy for the future," <i>Electrophoresis</i> (1995) 16:1543-1552

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				Examiner Name	Goldberg, Jeanine Anne
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Examiner Initials		Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pages(s), volume-issue numbers(s), publisher, city and/or country where published.
		JEFFREYS, A.J. et al., "Hypervariable `minisatellite` regions in human DNA," (1985a) Nature 314:67-73
		JEFFREYS, A.J. et al., "Individual-specific `fingerprints` of human DNA," (1985b) Nature, 316:76-79
		KIMPTON et al., "Validation of highly discriminating multiplex short tandem repeat amplification systems for individual identification," Electrophoresis (1996) 17:1283-1293
		KWOH, D. Y. and KWOH, T.J., "Target amplification systems in nucleic acid-based diagnostic approaches," American Biotechnology Laboratory (1990) 14-25
		LIN, Z. et al., "Multiplex genotype determination at a large number of gene loci," Proc. Natl. Acad. Sci. USA(1996) 93 (6):2582-2587
		LINS et al., "Multiplex sets for the amplification of polymorphic short tandem repeat loci – silver stain and fluorescence detection," Biotechniques (1996) 20:882-889
		MCKEOWN, B. et al., "Increasing the size of PCR products without redesigning primer building sequences", Nucleic Acids Research, (1995) 2337-2338
		MURRAY, J.C. et al., "A comprehensive human linkage map with centimorgan density," Science (1994) 265:2049-2054
		MURRAY et al., Genbank Accession No. G07948 (August 1995)

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		MURRAY et al., Genback Accession No. G08051 (August 1995)
		MURRAY et al., Genback Accession No. G08745 (August 1995)
		MURRAY et al., Genback Accession No. G08343 (August 1995)
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		ROUSSELET, "French Caucasian population data obtained from fluorescently detected HumvWFA31/A and HumF13A01 short tandem repeat loci," Int. J. Legal Med. (1996) 109:5-9
		ROUSSELET, "Multiplex amplification and the automated fluorescent typing of short tandem repeat (STR) loci: the French experience," Adv. Forens. Haemo. (1996) 6:139-141

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		SAMBROOK, J. et al., In Molecular Cloning A Laboratory Manual, 2nd edition, Cold Spring Harbor Laboratory Press, (1989) 13.45-13.57
		WALKER, G.T. et al., "Isothermal in vitro amplification of DNA by a restriction enzyme/DNA polymerase system," Proc. Natl. Acad. Sci., U.S.A. (1992) 89:392-396
		WAYE, J.S. et al., "Sensitive and Specific Quantification of Human Genomic Deoxyribonucleic Acid (DNA) in Forensic Science Specimens: Casework Examples," J. Forensic Sci. (1991) 36(4):1198-1203
		WAYE, J.S. et al., "A simple and sensitive method for quantifying human genomic DNA in forensic specimen extracts," Biotechniques (1989) 7(8):852-855

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